

Key Extraction for Host-Migrated Cable Modem

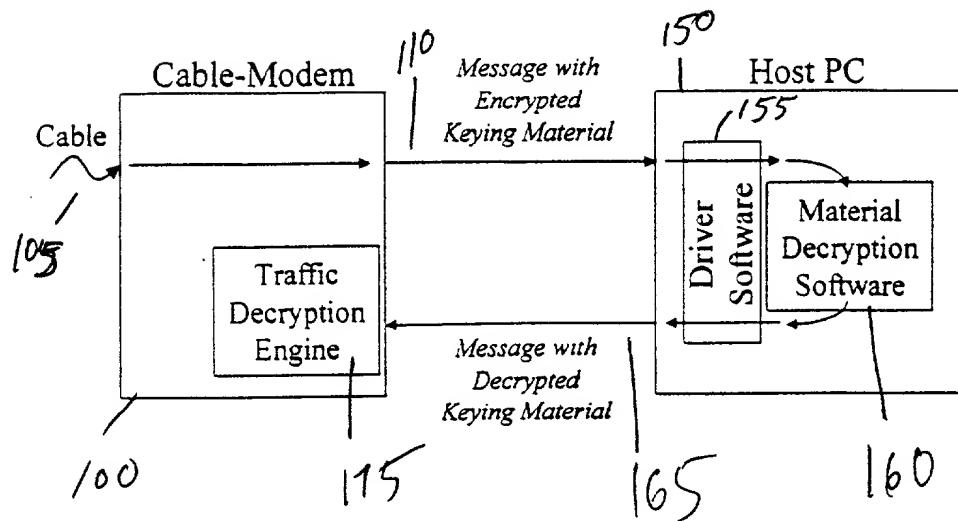
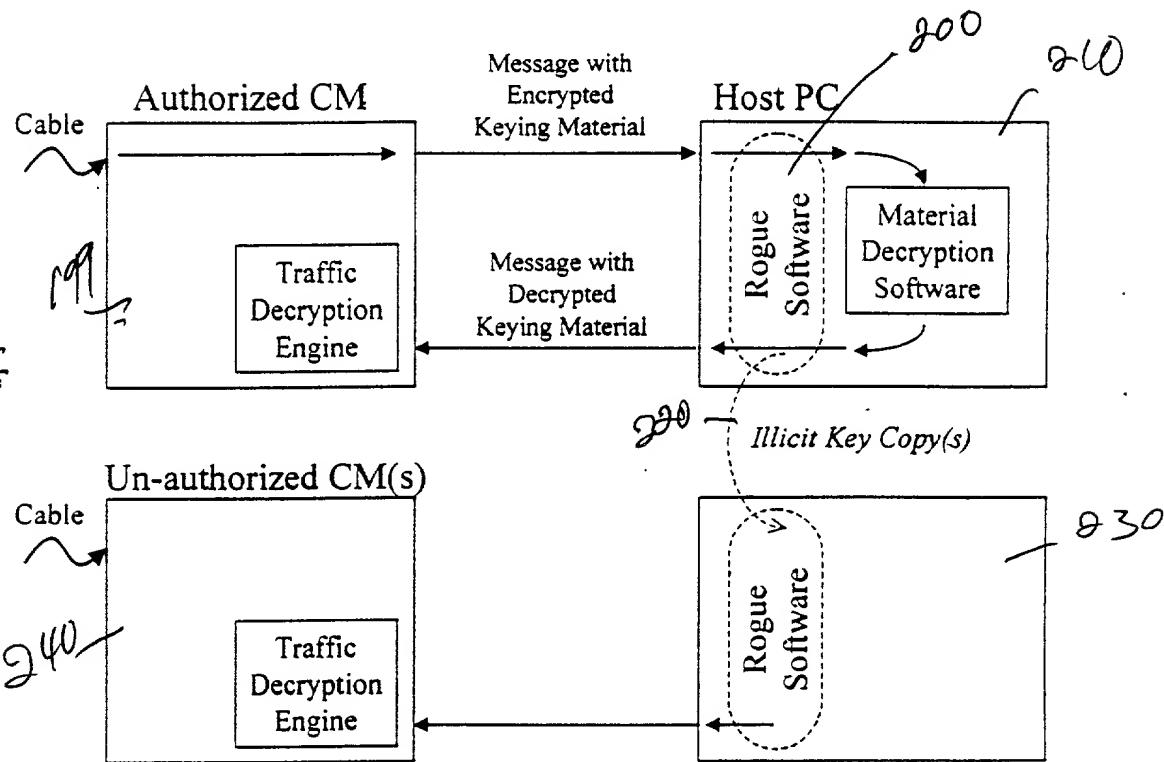
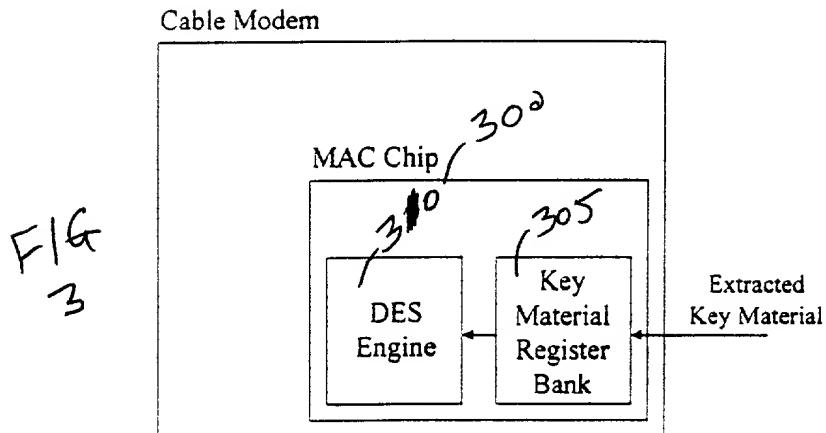


Fig. 1

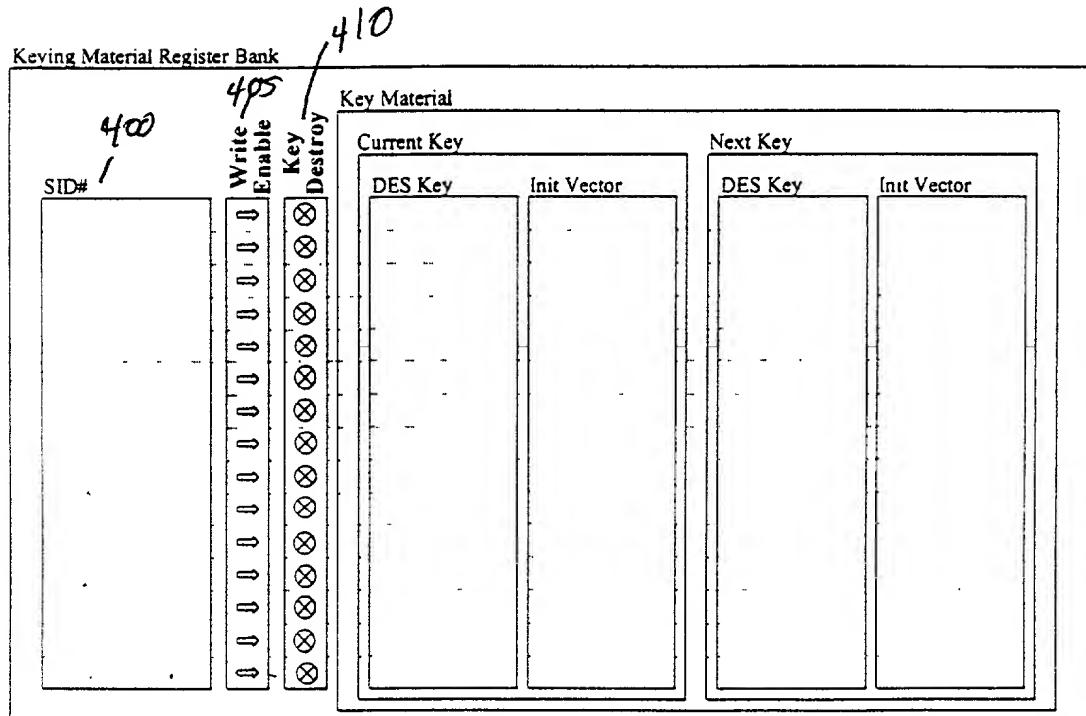
Security Threat to Key Extraction on Host-Migrated Cable Modem



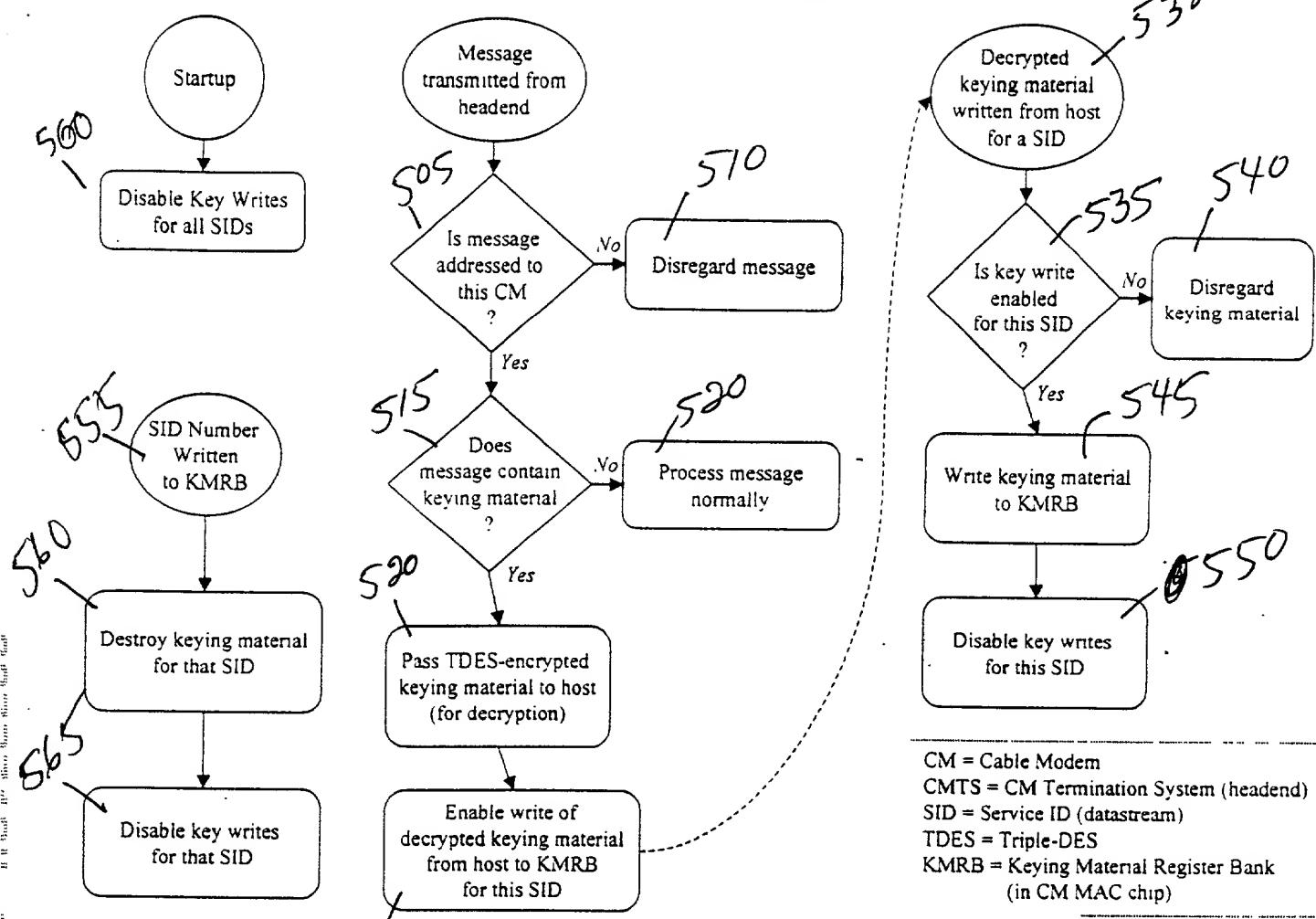
Decryption Key handling
in CCCM MAC chip



Key Material Register Bank
in CM Media Access Controller (MAC) Chip



Rules Flow-Chart



CM = Cable Modem
 CMTS = CM Termination System (headend)
 SID = Service ID (datastream)
 TDES = Triple-DES
 KMRB = Keying Material Register Bank
 (in CM MAC chip)

FIG 5

Generalized Protection case

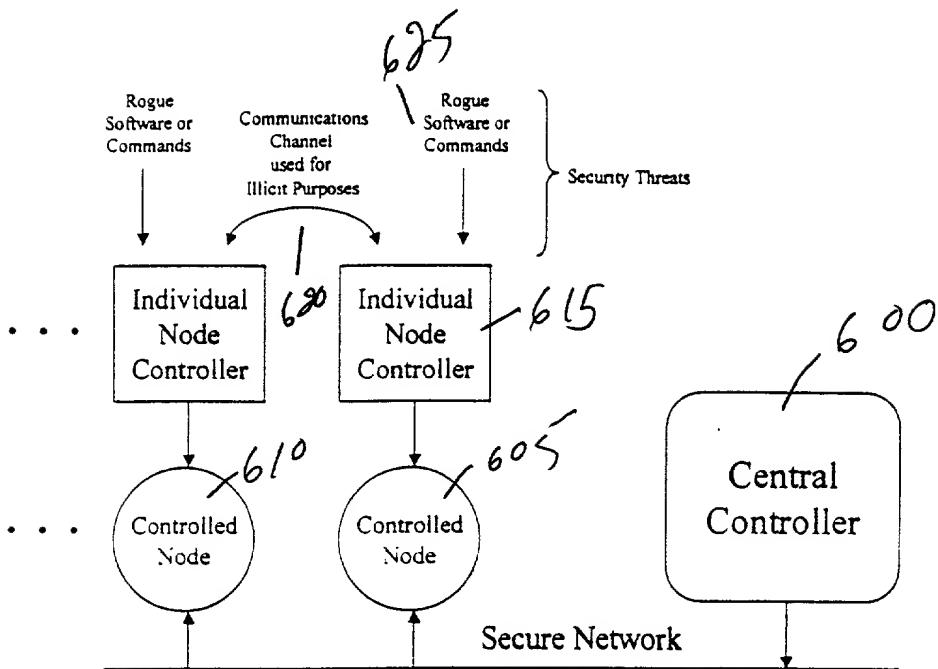


FIG 6